UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,342	09/21/2005	Dean Y Li	UUTH-P01-010	2504	
Stoel Rives	7590 12/28/200	7	EXAMINER		
Suite 1100	- C4 4		ROMEO, DAVID S		
201 South Mair Salt Lake City,	- 10		ART UNIT	PAPER NUMBER	
•			1647		
			MAIL DATE	DELIVERY MODE	
			12/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.		Applicant(s)				
		10/519,342		LI ET AL.				
		Examiner		Art Unit				
		David S. Romeo		1647				
The MAILING DATE of Period for Reply	f this communication app	pears on the cove	r sheet with the c	orrespondence ac	ddress			
A SHORTENED STATUTO WHICHEVER IS LONGER, - Extensions of time may be available after SIX (6) MONTHS from the mail - If NO period for reply is specified abo - Failure to reply within the set or extern Any reply received by the Office latern earned patent term adjustment. See	FROM THE MAILING D. under the provisions of 37 CFR 1.1 ng date of this communication. If the maximum statutory period and period for reply will, by statute than three months after the mailing	ATE OF THIS CO 36(a). In no event, how will apply and will expire e, cause the application to	OMMUNICATION ever, may a reply be time SIX (6) MONTHS from to become ABANDONEI	I. lely filed the mailing date of this of (35 U.S.C. § 133).				
Status								
1)⊠ Responsive to comm	inication(s) filed on 21 D	lecember 2004						
2a) This action is FINAL .	· · ·		al					
' _	/ 							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·	,	·					
·	ending in the application							
·- · · · - ·	Claim(s) <u>1-22</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.							
7) Claim(s) is/are								
8)⊠ Claim(s) <u>1-22</u> are sub	<u>-</u>	oloction requirem	ont					
0)⊠ Claiiii(s) <u>1-22</u> are sub	ject to restriction and/or	election requirem	CIII.					
Application Papers								
9)☐ The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed o	n is/are:_a)∏ acc	epted or b) 🗌 ob	jected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTC 2) Notice of Draftsperson's Patent I 3) Information Disclosure Statemen Paper No(s)/Mail Date	Prawing Review (PTO-948)	4)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te				

Application/Control Number: 10/519,342 Page 2

Art Unit: 1647

5

10

25

30

35

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, drawn to a Robo-4 receptor polynucleotide comprising the nucleotide sequence of SEQ ID NO: 1.

Group II, claim(s) 2, drawn to a Robo-4 receptor polynucleotide comprising the nucleotide sequence of SEQ ID NO: 2.

Group III, claim(s) 3 and 5, drawn to a Robo-4 receptor polypeptide comprising the amino acid sequence of SEQ ID NO: 5.

Group IV, claim(s) 4 and 6, drawn to a Robo-4 receptor polypeptide comprising the amino acid sequence of SEQ ID NO: 6.

Group V, claim(s) claims 7–12, 19–21 and 22, drawn to a method comprising providing an activating ligand of a Robo-4 receptor.

Group VI, claim(s) 13–18, drawn to a method comprising providing an inhibitor of a Robo-4 receptor.

The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of groups I–II is a Robo-4 receptor polynucleotide. The special technical feature of groups III–IV is a Robo-4 receptor polypeptide. In order for the inventions of groups I–VI to have unity of invention it is necessary that the inventive concept be a contribution over the prior art. However, the international search report filed with the present application indicates that Robo-4 receptor polynucleotides and polypeptides cannot be considered novel or cannot be considered to involve an inventive concept. Therefore, the inventions of groups I–IV do not fulfill the requirements for unity of invention. Each of groups I–IV do not share the same or corresponding special technical feature with either of groups V or VI because the inventive concept of groups I–VI is not a contribution over the prior art. Furthermore, the special technical feature of group VI is a an

Application/Control Number: 10/519,342 Page 3

Art Unit: 1647

5

10

15

inhibitor of a Robo-4 receptor, which is not the same or corresponding special technical feature of groups I–IV. Groups V and VI lack the same or corresponding special technical feature because the special technical features are different. The special technical feature of group V is an activating ligand of a Robo-4 receptor. The special technical feature of group VI is an inhibitor of a Robo-4 receptor.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

ANY INQUIRY CONCERNING THIS COMMUNICATION OR EARLIER COMMUNICATIONS FROM THE EXAMINER SHOULD BE DIRECTED TO 20 DAVID S. ROMEO WHOSE TELEPHONE NUMBER IS (571) 272-0890. THE EXAMINER CAN NORMALLY BE REACHED ON MONDAY THROUGH FRIDAY FROM 9:00 A.M. TO 5:30 P.M. IF ATTEMPTS TO REACH THE EXAMINER BY TELEPHONE ARE UNSUCCESSFUL, THE EXAMINER'S SUPERVISOR, MANJUNATH RAO, CAN BE REACHED AT (571)272-0939.

IF SUBMITTING OFFICIAL CORRESPONDENCE BY FAX, APPLICANTS ARE ENCOURAGED TO SUBMIT OFFICIAL CORRESPONDENCE TO THE CENTRAL FAX NUMBER FOR OFFICIAL CORRESPONDENCE, WHICH IS (571) 273-8300.

CUSTOMERS ARE ALSO ADVISED TO USE CERTIFICATE OF FACSIMILE PROCEDURES WHEN SUBMITTING A REPLY TO A NON-FINAL OR FINAL OFFICE ACTION BY FACSIMILE (SEE 37 CFR 1.6 AND 1.8).

ANY INQUIRY OF A GENERAL NATURE OR RELATING TO THE STATUS OF THIS APPLICATION OR PROCEEDING MAY BE OBTAINED FROM THE PATENT APPLICATION INFORMATION RETRIEVAL (PAIR) SYSTEM. STATUS INFORMATION FOR PUBLISHED APPLICATIONS MAY BE OBTAINED FROM EITHER PRIVATE PAIR OR PUBLIC PAIR. STATUS INFORMATION FOR UNPUBLISHED APPLICATIONS IS AVAILABLE THROUGH PRIVATE PAIR ONLY. FOR MORE INFORMATION ABOUT THE PAIR SYSTEM, SEE HTTP://PAIR-DIRECT.USPTO.GOV. CONTACT THE ELECTRONIC BUSINESS CENTER (EBC) AT 866-217-9197 (TOLL-FREE) FOR QUESTIONS ON ACCESS TO THE PRIVATE PAIR SYSTEM,

35

25

30

/DAVID ROMEO/ PRIMARY EXAMINER ART UNIT 1647

40 **DECEMBER 26, 2007**